

DERWENT-ACC-NO: 2000-450447
DERWENT-WEEK: 200039
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TITLE: Supplement to the process for producing light candle

INVENTOR: LIN, G

PATENT-ASSIGNEE: LIN G[LINGI]

PRIORITY-DATA: 1990TW-0109525 (September 13, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	
PAGES	MAIN-IPC		
TW 373019 A	November 1, 1999	N/A	009
C11C 005/00			

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
TW 373019A	N/A	1990TW-0109525
September 13, 1995		

INT-CL_(IPC): C11C005/00; C11C005/02

ABSTRACTED-PUB-NO: TW 373019A

BASIC-ABSTRACT: NOVELTY - A supplement to the process of producing a novel light candle which is prepared from 100% of hydrogenated vegetable oil, mixed with hardening oil and formed a solidified waxy candle under technical control over the temperature and melting, conducive to long time lighting; because of pure vegetable oil containing no wax, it burns without offensive smog, no poison and offers good smell.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

SUPPLEMENT PROCESS PRODUCE LIGHT CANDLE

DERWENT-CLASS: D23

CPI-CODES: D10-B03;

SECONDARY-ACC-NO:

CFI Secondary Accession Numbers: C2000-137210

19 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2001 ACS

Full Text	Citing References
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AN 1994:137639 HCAPLUS
 IN 120:137639
 TI Method of making a **candle** and composition thereof
 IN Lin, Kuo Lung
 PA Chen, Wen Chi, Taiwan
 SO Brit. UK Pat. Appl., 16 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 IC ICM C11C005-00
 ICS C08L091-06
 CC 45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2262537	A1	19930623	GB 1991-27167	19911220
	GB 2262537	B2	19951004		

AB The method providing a **candle** which releases reduced smoke, odor, and toxic particles on burning includes heat melting a butter oil and a solidified oil, mixing the butter oil and the solidified oil, and cooling and solidifying the mixt. to provide the wax of the **candle**, the butter oil having m.p. 35-37° and palmitic content $\leq 0.1\%$ and the solidified oil having acid value < 0.5 , I value < 2.0 , sapon. value 195-198, m.p. $60 \pm 1^\circ$, and impurity content $< 0.2\%$. A **candle** was prepd. from a butter oil contg. **palm** oil 50-58, coconut oil 30-35, soybean oil 5-8, cotton seed oil 5-8, flavor 2%, and other additives and a solidified oil contg. 80-90% **palm** oil and 10-20% soybean oil.

ST **candle** manuf butter oil compn; solidified oil butter **candle** manuf
 IT Coconut oil
 Cottonseed oil

Palm oil
 Soybean oil

RL: USES (Uses)

(butter oil contg., for manuf. of **candles**)

IT **Candles**

(manuf. of, from butter oil and solidified oil, with reduced smoke, odor, and toxic particles on burning)

IT **Palm** oil

RL: USES (Uses)

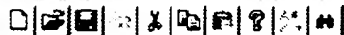
(hydrogenated, butter oil contg., for manuf. of **candles**)

ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2001 ACS

Full
TextCiting
References

AN 1989:556417 HCAPLUS
 IN 111:156417
 TI Paraffin wax substitute
 IN Phaddeemohit, Tagchai; Boonvichitr, Saowaluck
 PA Thailand
 SO U.S., 3 pp.
 CC DEN: USXXAM
 DT Patent
 LA English
 IC ICM C08L091-00
 ICS C11C003-12
 NCL 106244000
 CC 45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4842648	A	19890627	US 1987-112352	19871022
AB	The title substitute, useful in the manuf. of shoe waxes, candles , waxed paper, etc., which is completely compatible with paraffin and hydrocarbon waxes, comprises a mixt. of 1-5% glyceryl monostearate (an emulsifying agent which reduces the amt. of cracking during molding) and refined, bleached, and the remainder as deodorized palm stearin. This compn. has m.p. 55-62° and I value 0-5.				
ST	paraffin wax substitute manuf; stearin glyceryl monostearate wax substitute				
IT	Waxes and Waxy substances				
	PL: USES (Uses) (glyceryl monostearate-refined palm stearin mixts. as, compatible with or as substitutes for paraffin waxes)				
IT	Paraffin waxes and Hydrocarbon waxes, uses and miscellaneous				
	PL: USES (Uses) (substitutes for, refined palm stearin-glyceryl monostearate mixts. as, manuf. of)				
IT	11099-07-3, Stearin				
	PL: USES (Uses) (mixts. with glyceryl monostearate, as substitutes for paraffin waxes)				
IT	31566-31-1, Glyceryl monostearate				
	PL: USES (Uses) (mixts. with refined and bleached and deodorized palm stearin, as substitutes for paraffin waxes)				



- ☒ L359: (4386) candle
- ☒ L360: (33710) paraffin
- ☒ L361: (8052) triglyceride
- ☒ L362: (59504) hydrogenat\$3
- ☒ L363: (0) 359 and 360 and 361 and 362
- ☒ L364: (0) 359 and 361 and 362
- ☒ L365: (0) vegetable and 359 and 361 and 360
- ☒ L366: (3) 359 and 361
- ☒ L367: (0) 359 and 365
- ☒ L368: (32) 359 and 362

DB: ☒ Plurals ☐ Synonyms

Default operator: ☒ Highlight all hit terms initially

☒ BR5 form ☒ IS&R form ☒ Image ☒ Text

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef
1	<input type="checkbox"/>	<input type="checkbox"/>	JP 2000219892 A	20000808	6	GEL COMPOSITION FOR TRANSPARENT CANDLE		
2	<input type="checkbox"/>	<input type="checkbox"/>	JP 06145692 A	19940527	3	METHOD TO PREPARE CANDLE AND CANDLE		
3	<input type="checkbox"/>	<input type="checkbox"/>	US 5885600 A	19990323	5	Natural insect repellent formula and method of making		
4	<input type="checkbox"/>	<input type="checkbox"/>	US 5871553 A	19990216	4	Fragrance-carrier compositions for use in tart		
5	<input type="checkbox"/>	<input type="checkbox"/>	US 5843194 A	19981201	10	Clear gel formulation for use in transparent candles		
6	<input type="checkbox"/>	<input type="checkbox"/>	US 5534149 A	19960709	9	Method of separating catalyst-free working		
7	<input type="checkbox"/>	<input type="checkbox"/>	US 5348657 A	19940920	6	Process for the separation of catalyst-free working		
8	<input type="checkbox"/>	<input type="checkbox"/>	US 5171329 A	19921215	3	Method for manufacturing a candle		
9	<input type="checkbox"/>	<input type="checkbox"/>	GB 2197337 A	19880518	8	Hydrogenation of palm stearine		554/141
10	<input type="checkbox"/>	<input type="checkbox"/>	US 4360387 A	19821123	6	Isomorphous jojoba oil		

Start



8:39 AM

Inbox - Microsoft Outlook

EAST - [Untitled1]

Application Number Informa...

Microsoft Excel - 1y2002





Saved

- (6077) candle
- (17442) triglyceride
- (100914) fatty ADJ acidS1
- (90197) hydrogenatS3
- (22) candle and triglyceride and (fatty ADJ acidS1) and hydrogenatS3
- (189) 44/275

Favorites

Tagged

Synonyms

All hit terms initially

hydrog
enatS3

	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current XRef
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20010013195 A1		6	Vegetable lipid-based composition and candle		
2	<input type="checkbox"/>	<input type="checkbox"/>	US 6284007 B1	20010904	6	Vegetable lipid-based composition and candle	44/275	431/288
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6242509 B1	20010605	38	Gels including bioactive components	523/122	424/400 ; 424/404
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6241967 B1	20010605	12	Process and device for the production of liquid,	424/9.321	424/450 ; 424/9.1
5	<input type="checkbox"/>	<input type="checkbox"/>	US 6111055 A	20000829	39	Ester-terminated polyamide gels	528/310	424/64 ; 424/66
6	<input type="checkbox"/>	<input type="checkbox"/>	US 6063144 A	20000516	4	Non-paraffin candle composition	44/275	431/126 ; 431/288
7	<input type="checkbox"/>	<input type="checkbox"/>	US 5998570 A	19991207	16	Ester-terminated polyamides of polymerized fatty acids	528/310	431/288 ; 44/275
8	<input type="checkbox"/>	<input type="checkbox"/>	US 5952095 A	19990914	32	Intercalates and exfoliates formed with long chain	428/332	106/632 ; 252/378R
9	<input type="checkbox"/>	<input type="checkbox"/>	US 5804613 A	19980908	19	Intercalates and exfoliates formed with monomeric	523/200	106/416 ; 106/484
10	<input type="checkbox"/>	<input type="checkbox"/>	US 5783657 A	19980721	15	Ester-terminated polyamides of polymerized fatty acids	528/310	524/600 ; 524/606
11	<input type="checkbox"/>	<input type="checkbox"/>	US 5637293 A	19970610	9	Preparation for epidermis	424/62	424/401

Start

8:25 AM

Inbox - Microsoft Outlook

EAST - [Untitled1]

STN Express

Application Number Inform...

Microsoft Excel - 1/2002

09/11/18

CS Inst Mining, Krivoi Rog
 SO Zavodsk. Lab. (1965), 3119, 1109-10
 DT Journal
 LA Russian

=> s tw (P) pn
 2559 TW
 60 TWS
 2612 TW
 (TW OR TWS)
 21486 PN
 1337 PNS
 22752 PN
 (PN OR PNS)
 L7 4 TW (P) PN

=> d 14 1-7 all
 L4 HAS NO ANSWERS
 L4 0 SEA FILE=HCAPLUS ABB=ON PLU=ON TW373019/PN

=> d cost		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
CONNECT CHARGES	13.30	13.45
NETWORK CHARGES	0.42	0.48
DISPLAY CHARGES	4.30	4.30
	-----	-----
	18.02	18.23
CAPLUS FEE (5%)	0.88	0.88
	-----	-----
FULL ESTIMATED COST	18.90	19.11

IN FILE 'HCAPLUS' AT 10:20:37 ON 04 NOV 2001

=> s triglyceride and candle
 29052 TRIGLYCERIDE
 31885 TRIGLYCERIDES
 49927 TRIGLYCERIDE
 (TRIGLYCERIDE OR TRIGLYCERIDES)
 1607 CANDLE
 1360 CANDLES
 2520 CANDLE
 (CANDLE OR CANDLES)
 L8 6 TRIGLYCERIDE AND CANDLE

=> d 18 1-6 all

L8 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2001 ACS
Full-text
 AN 2001:645561 HCAPLUS
 DN 135:197796
 TI Vegetable lipid-based composition and candle
 IN Tao, Bernard Y.
 PA Indiana Soybean Board, Inc., USA
 SO U.S. , 6 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM C10L005-00

STN Columbus

NCL 044275000

CC 51-12 (Fossil Fuels, Derivatives, and Related Products)

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6284007	B1	20010904	US 1998-132991	19980812
	US 2001013195	A1	20010816	US 2001-802137	20010308
PFAI	US 1998-132991	A1	19980812		

AB A vegetable lipid-based compn. comprised of a vegetable lipid component and a petroleum wax is described. The vegetable lipid component may include a **triglyceride** or a free fatty acid/**triglyceride** mixt. The vegetable lipid-based compn. will burn significantly longer than com. **candles**.

ST vegetable lipid **candle**IT **Candles**

Coloring materials

Odor and Odorous substances

(vegetable lipid-based compn. and **candle**)

IT Fatty acids, uses

Glycerides, uses

Hydrocarbon waxes, uses

RL: MOA (Modifier or additive use); USES (Uses)

(vegetable lipid-based compn. and **candle**)

IT 57-10-3, Palmitic acid, uses 57-11-4, Stearic acid, uses 60-33-3, Linoleic acid, uses 112-80-1, Oleic acid, uses 112-85-6, Behenic acid 143-07-7, Lauric acid, uses 373-49-9, Palmitoleic acid 463-40-1, Linolenic acid 506-30-9, Arachidic acid 506-32-1, Arachidonic acid 544-63-8, Myristic acid, uses 557-59-5, Lignoceric acid

RL: MOA (Modifier or additive use); USES (Uses)

(vegetable lipid-based compn. and **candle**)

RE.CNT 30

RE

- (1) Anon; JP 47030760 1968
- (2) Anon; JP 60051765 1985 HCAPLUS
- (3) Anon; GB 2197337 1988 HCAPLUS
- (4) Baumer; US 1958462 1934
- (5) Beardmore; US 4118203 1978 HCAPLUS
- (6) Cangardel; US 3871815 1975 HCAPLUS
- (7) Comstock; US 4608011 1986
- (8) Drake; US 3429815 1969 HCAPLUS
- (9) Dulling; US 3630697 1971 HCAPLUS
- (10) Easterday; US 3384312 1968
- (11) Elsamaloty; US 5578089 1996
- (12) Kayfetz; US 4134718 1979
- (13) Kirk-Other; Encyclopedia of Chemical Technology, 3rd Edition V24, P473
- (14) Knowles; US 3613658 1971
- (15) Lin; US 5171329 1992
- (16) Luken; US 4759709 1988
- (17) Miller; US 3645705 1972 HCAPLUS
- (18) Morrison; US 5879694 1999 HCAPLUS
- (19) Poulina; US 4813975 1989 HCAPLUS
- (20) Pretorius; US 4002706 1977 HCAPLUS
- (21) Requejo; US 5919423 1999 HCAPLUS
- (22) Reswick; US 2377106 1945
- (23) Sapper; US 4507077 1985
- (24) Saunders; US 4390590 1983 HCAPLUS
- (25) Taylor; US 4855098 1989 HCAPLUS
- (26) Thompson; US 2638411 1953 HCAPLUS
- (27) Tsaras; US 3844706 1974
- (28) Will; US 1954659 1934
- (29) Wilson; US 4614625 1986 HCAPLUS
- (30) Wilson; US 4693890 1987 HCAPLUS

L8 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2001 ACS

Full-text

AN 2001:598353 HCAPLUS
 DN 135:154914
 TI Vegetable lipid-based composition and **candle**
 IN Tao, Bernard Y.
 PA Indiana Soybean Board, USA
 SO U.S. Pat. Appl. Publ., 6 pp., Cont. of U.S. Ser. No. 132,991.
 CODEN: USXXCO
 DT Patent
 LA English
 IC ICM C10L005-00
 NCL 044275000
 CC 51-12 (Fossil Fuels, Derivatives, and Related Products)
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001013195	A1	20010816	US 2001-802137	20010308
	US 6284007	B1	20010904	US 1998-132991	19980812
PRAI	US 1998-132991	A1	19980812		
AB	A vegetable lipid-based compn. comprised of a vegetable lipid component and a petroleum wax is described. The vegetable lipid component may include a triglyceride or a free fatty acid/ triglyceride mixt. The vegetable lipid-based compn. has properties that make it advantageous in candle prodn.				
ST	candle triglyceride fatty acid				
IT	Candles (vegetable lipid-based compn. and candle)				
IT	Fatty acids, uses Glycerides, uses Hydrocarbon waxes, uses Paraffin waxes, uses RL: MOA (Modifier or additive use); USES (Uses) (vegetable lipid-based compn. and candle)				
IT	57-10-3, Palmitic acid, uses 57-11-4, Stearic acid, uses 112-80-1, Oleic acid, uses RL: MOA (Modifier or additive use); USES (Uses) (vegetable lipid-based compn. and candle)				

L8 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2001 ACS

Full-text

AN 1998:31382 HCAPLUS
 DN 128:66323
 TI Process for producing a paraffin-based object, especially a perfumed **candle**
 IN Matzat, Norbert; Matthaei, Michael; Starke, Claus
 PA Schuemann Sasol G.m.b.H. und Co. K.-G., Germany; Matzat, Norbert; Matthaei, Michael; Starke, Claus
 SO PCT Int. Appl., 18 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 IC ICM C11C005-00
 ICS A61K007-46
 CC 62-5 (Essential Oils and Cosmetics)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9748784	A1	19971224	WO 1997-EP2670	19970524
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,				

STN Columbus

LC, LE, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NC, NZ, PL,
 PT, RC, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ
 VN, YU, AM, AZ, BY, EG, KZ, MD, RU, TJ, TM
 RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB,
 GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN,
 ML, MR, NE, SN, TD, TG

DE 19707909	A1	19980108	DE 1997-19707909	19970227
CA 2258678	AA	19971224	CA 1997-2258678	19970524
AU 9729604	A1	19980107	AU 1997-29604	19970524
EP 906381	A1	19990407	EP 1997-923997	19970524
R. AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, SI, FI				
BR 9709825	A	19990810	BR 1997-9825	19970524
JP 2001501983	T2	20010213	JP 1998-502169	19970524
US 6224641	B1	20010501	US 1998-202755	19981216
PRAI DE 1996-19624454	A	19960619		
DE 1996-19643719	A	19961023		
DE 1997-19707909	A	19970227		
WO 1997-EP2670	W	19970524		
AB	In a method for prodn. of a perfumed candle or other paraffin-based object with a proportion of a perfume, the perfume is dissolved in a solvent contg. an ester, esp. an org. ester such as a triglyceride , and the soln. is in turn added to or dissolved in paraffin. The perfume forms a solid soln. with the solvent; this soln. may contain a high proportion of perfume and is readily mixed homogeneously with powd. paraffin base. The powd. mixt. is formed into a candle or other object by compression. Thus, hardened palm oil (penetration 6 mm-1) contg. 30% essential oil was mixed 1:1 with paraffin paste to produce a product with penetration ~46 mm-1 at 30°.			
ST	paraffin wax perfumed candle			
IT	Palm oil			
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES			
	(Uses)			
	(hardened; process for producing a paraffin-based object, esp. a perfumed candle)			
IT	Waxes			
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES			
	(Uses)			
	(micro-; process for producing a paraffin-based object, esp. a perfumed candle)			
IT	Candles			
	Perfumes			
	(process for producing a paraffin-based object, esp. a perfumed candle)			
IT	Paraffin waxes, biological studies			
	Tallow			
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES			
	(Uses)			
	(process for producing a paraffin-based object, esp. a perfumed candle)			
IT	Esters, biological studies			
	Glycerides, biological studies			
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES			
	(Uses)			
	(solvents; process for producing a paraffin-based object, esp. a perfumed candle)			

L3 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2001 ACS

Full-text

AN 1997:53532 HCAPLUS
 DN 126:77354
 TI Gelatinized plant oil for use as **candles**
 IN Eini, Meir

PA Israel
 SO Israeli, 23 pp.
 CODEN: ISXXAQ
 DT Patent
 LA English
 IC ICM C22C005-00
 CC 51-12 (Fossil Fuels, Derivatives, and Related Products)
 Section cross-reference(s): 17

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IL 109814	A1	19960618	IL 1994-109814	19940529
AB	A compn. for use in illumination, comprising: (a) at least one oil; and (b) at least one gelatinizing agent having 15 or more carbons, selected from the group consisting of fatty acids and fatty acid derivs., in a sufficiently high concn. to gelatinize the oil. The oil is selected from rose hip oil, wheat germ oil, apricot kernel oil, avocado oil, sunflower oil, evening primrose oil, jojoba oil, corn germ oil, mineral oil, and olive oil. The gelatinizing agent is selected from the alcs. 1-pentadecanol, cetyl alc., 1-heptadecanol, stearyl alc., nonadecanol, arachidyl alc., heneicosanol, behenyl alc., lignoceryl alc., 1-pentacosanol, 1-hexacosanol, 1-heptacosanol, 1-octacosanol, 1-tracontanol, 1-tetracontanol, or 1-pentacontanol or from the satd. fatty acids. Stearic acid, hexacosanic acid, stearic acid Et ester, stearic acid Me ester, stearic acid Pr ester, stearic anhydride, α -hydroxy stearic acid, triglycerides , 12-hydroxy stearic acid, 1-monopalmitoyl-rac-glyceride, 1,3-dipalmitin, 1,2-dipalmitoyl-3-myristoyl-rac-glycerol, and hexadecanedioic acid.				
ST	candle gelatinized plant oil				
IT	Fats and Glyceridic oils, uses RL: TEM (Technical or engineered material use); USES (Uses) (apricot kernel; gelatinized plant oil for use as candles)				
IT	Candles RL: IMF (Industrial manufacture); PREP (Preparation) (gelatinized plant oil for use as candles)				
IT	Avocado oil RL: TEM (Technical or engineered material use); USES (Uses) (gelatinized plant oil for use as candles)				
IT	Corn oil RL: TEM (Technical or engineered material use); USES (Uses) (gelatinized plant oil for use as candles)				
IT	Evening primrose oil RL: TEM (Technical or engineered material use); USES (Uses) (gelatinized plant oil for use as candles)				
IT	Fatty acids, uses RL: TEM (Technical or engineered material use); USES (Uses) (gelatinized plant oil for use as candles)				
IT	Glycerides, uses RL: TEM (Technical or engineered material use); USES (Uses) (gelatinized plant oil for use as candles)				
IT	Hydrocarbon oils RL: TEM (Technical or engineered material use); USES (Uses) (gelatinized plant oil for use as candles)				
IT	Jojoba oil RL: TEM (Technical or engineered material use); USES (Uses) (gelatinized plant oil for use as candles)				
IT	Olive oil RL: TEM (Technical or engineered material use); USES (Uses) (gelatinized plant oil for use as candles)				
IT	Sunflower oil RL: TEM (Technical or engineered material use); USES (Uses) (gelatinized plant oil for use as candles)				

IT Wheat germ oil
 RL TEM (Technical or engineered material use); USES (Uses)
 gelatinized plant oil for use as **candles**

IT Fats and Glyceridic oils, uses
 RL TEM (Technical or engineered material use); USES (Uses)
 rose hip; gelatinized plant oil for use as **candles**

IT 57-11-4, Octadecanoic acid, uses 106-14-9 111-61-5, Stearic acid ethyl ester 112-61-8, Stearic acid methyl ester 112-92-5, 1-Octadecanol 502-52-3, 1,3-Dipalmitin 505-54-4, Hexadecanedioic acid 506-46-7, Hexacosanoic acid 506-51-4, Lignoceryl alcohol 506-52-5, 1-Hexacosanol 557-61-9, 1-Octacosanol 593-50-0, 1-Triacontanol 629-22-1, α -Hydroxy stearic acid 629-76-5, 1-Pentadecanol 629-96-9, Arachidyl alcohol 638-08-4, Stearic anhydride 661-19-8, Behenyl alcohol 1454-85-9, 1-Heptadecanol 2004-39-9, 1-Heptacosanol 3634-92-2, Stearic acid propyl ester 26040-98-2, 1-Pentacosanol 26657-96-5 29592-89-0 36653-82-4, 1-Hexadecanol 40710-43-8, 1-Pentacontanol 51227-32-8, Heneicosanal 52783-43-4, Nonadecanol 164350-12-3, 1-Tetracontanol
 RL: TEM (Technical or engineered material use); USES (Uses)
 (gelatinized plant oil for use as **candles**)

L8 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2001 ACS

Full-text

AN 1989:56305 HCAPLUS
 DN 110:56305
 TI Study on **candle** millet seed oil (Pennisetum americanum L. Schum.)
 AU Lognay, G.; Marlier, M.; Baudart, E.; Severin, M.; Casimir, J.
 CS Lab. Chim. Gen. Org., Fac. Sci. Agron. Etat, Gembloux, Belg.
 SO Riv. Ital. Sostanze Grasse (1988), 65(4), 291-4
 CODEN: RISGAD; ISSN: 0035-6808

DT Journal
 LA French
 CC 17-11 (Food and Feed Chemistry)

AB Two cultivars of Millet seeds (*P. americanum*) were studied. The fatty acid profile was characterized by high levels of linoleic, oleic, and palmitic acids. Other minor acids with 20, 22, and 24 C atoms were also identified by GC-MS. The predominant **triglycerides** calcd. on the basis of the random 1-2 distribution were PLO, PLL, OLL, OOL, PLP, and LLL. GC-MS and GLC investigations on the sterol and tocopherol fractions revealed that the main constituents are sitosterol and campesterol for the former and α - and γ -tocopherol for the latter. Nutritional properties in relation to oil compn. are also briefly discussed.

ST millet seed oil compn; tocopherol millet seed oil; **triglyceride** millet seed oil; fatty acid millet seed oil; sterol millet seed oil

IT Fatty acids, biological studies
 Glycerides, biological studies
 Hydrocarbons, biological studies
 Lipids, biological studies
 Tocopherols
 RL: BIOL (Biological study)
 (of millet seed oil, variety in relation to)

IT Steroids, biological studies
 RL: BIOL (Biological study)
 (hydroxy, of millet seed oil, variety in relation to)

IT Glycerides, biological studies
 RL: BIOL (Biological study)
 (mono-, of millet seed oil, variety in relation to)

IT Oils, glyceridic
 RL: PRP (Properties)
 pearl millet seed, compn. of, variety in relation to)

IT Lipids, biological studies
 RL: BIOL (Biological study)

apolar, of millet seed oil, variety in relation to:
 IT 57-88-5, Cholesterol, biological studies 59-02-9, α -Tocopherol
 83-46-5, β -Sitosterol 83-48-7 119-13-1, δ -Tocopherol
 122-32-7 148-03-8, β -Tocopherol 474-62-4, Campesterol 481-19-6,
 17-Stigmasterol 537-40-6 1721-51-3, α -Tocotrienol
 7616-22-0, γ -Tocopherol 13472-36-1, Δ^5 -Avenasterol
 23290-26-8 26836-30-6 26836-31-7 26836-32-8 26836-35-1
 26836-36-2 26836-37-3 26836-38-4 26836-39-5 26836-40-8
 27071-84-7 28409-91-8 28409-94-1 28880-78-6 29590-12-1
 29661-35-6
 RL BIOL (Biological study)
 of millet seed oil, variety in relation to:

L8 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2001 ACS

Full-text:

AN 1980:145416 HCAPLUS
 DN 92 145416
 TI Utilization of protected and unprotected rapeseed by lactating dairy cows
 AU Christensen, David A.; Cochran, Marlene; Steacy, G.
 CS Dep. Anim. Poult. Sci., Univ. Saskatchewan, Saskatoon, SK, Can.
 SO Proc. Int. Rapeseed Conf., 5th (1979), Meeting Date 1978, Volume 2, 217-19
 Publisher: Dr. Goesta Andersson, Svaloev, Swed.
 CODEN: 42TCAX
 DT Conference
 LA English
 CC 18-3 (Animal Nutrition)
 Section cross-reference(s): 4
 AB Cows given low-forage control (35% alfalfa-bromegrass hay), high-forage
 control (50% hay), low forage feed contg. 8% H₂CO [50-00-0]-treated
 soybean-tallow mixt., or 8% H₂CO-treated low-glucosinolate (cultivar
 Tower) rapeseed had milk prodns. of 28.6, 27.3, 30.4, and 31.7 kg/day,
 resp. The treated rapeseed-contg. feed produced higher milk fat and
 better feed efficiency than the other test materials. Cows given similar
 feeds, but with unprotected soybean meal (2.2% fat), 6.3 or 12.6% cultivar
 Candle rapeseed (5 and 8% fat, resp.), or 11.2% cultivar Tower rapeseed
 (8% fat) had milk yields of 27.7, 27.6, 26.8, and 25.7 kg/day, resp.
 Those given the rape-contg. feeds all had significantly higher plasma
 cholesterol [57-88-5] and triglyceride levels.
 ST rapeseed formaldehyde cow milk; protein rape formaldehyde cow milk; lipid
 rape formaldehyde cow milk; cholesterol cow feed rapeseed; plasma lipid
 cow rape feed
 IT Cattle
 (feeding expt. on cows, with formaldehyde-treated rape)
 IT Brassica campestris
 Rape
 (feeding expt. with formaldehyde-treated, on dairy cows)
 IT Lipids
 RL: BIOL (Biological study)
 (formaldehyde-protected, of rapeseed, feeding expt. with, on dairy
 cows)
 IT Glycerides, biological studies
 RL: BIOL (Biological study)
 (of blood plasma, of cow, rapeseed of feed effect on)
 IT Milk
 (prodn. of, feeding expt. with formaldehyde-treated rape protein on)
 IT 57-88-5, biological studies
 RL: BIOL (Biological study)
 (of blood plasma, of cow, rapeseed of feed effect on)
 IT 50-00-0, biological studies
 RL: BIOL (Biological study)
 (rapeseed treated with, feeding expt. with, on dairy cows)

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FILE 'HOME' ENTERED AT 10:16:31 ON 04 NOV 2001

FILE 'HCAPLUS' ENTERED AT 10:16:41 ON 04 NOV 2001

L1 0 S TW373019/PN
 L2 0 S TW373019/PN
 L3 0 S TW373019/9N
 L4 0 S TW373019/PN
 L5 2612 S TW
 L6 4 S L5 AND PN
 L7 4 S TW (P) PN
 L8 6 S TRIGLYCERIDE AND CANDLE

=> s palm and candle

10450 PALM
 680 PALMS
 10712 PALM
 (PALM OR PALMS)
 1607 CANDLE
 1360 CANDLES
 2520 CANDLE
 (CANDLE OR CANDLES)

L9 11 PALM AND CANDLE

=> d l9 1-11 all

L9 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2001 ACS

Full-text

AN 2001:426985 HCAPLUS
 DN 135:168611
 TI Dimethyl ether (DME). Assessment of viscosity using the new volatile fuel viscometer (VFVM)
 AU Sivebaek, Ion M.; Sorenson, Spencer C.; Jakobsen, Joergen
 CS Technical University of Denmark, Den.
 SO Soc. Automot. Eng., [Spec. Publ.] SP (2001), SP-1632(State of Alternative Fuel Technologies 2001), 1-9
 CODEN: SAESA2; ISSN: 0099-5908
 PB Society of Automotive Engineers
 DT Journal
 LA English
 CC 51-12 (Fossil Fuels, Derivatives, and Related Products)
 Section cross-reference(s): 52
 AB This paper describes the development and test of a viscometer capable of handling di-Me Ether (DME) and other volatile fuels. DME has excellent combustion characteristics in diesel engines but the injection equipment can break down prematurely due to extensive wear when handling this fuel. It was established, in earlier work, that the wear in the pumps is substantial even if the lubricity of DME is raised to a believed acceptable level using anti-wear additives. An influence of the viscosity on the wear in the pumps was suspected. The problem, up to now, was that the viscosity of DME has only been estd. or calcd. but never actually measured. In the present work a volatile fuel viscometer (VFVM) was developed. It is of the capillary type and it was designed to handle DME, pure or with additives. The kinematic and dynamic viscosities of pure DME were measured at 0.185 cSt and 0.122 cP at 25° resp. The VFVM established that low concns. of additives do not affect the viscosity of DME significantly. This is the case even when the additive has a high viscosity or is solid at ambient temp. The viscosity of DME blends can reach that of diesel oil but only when the additive is present in large proportions. It is not believed that reasonably additive-contg. DME can

reach the same viscosity and lubricity as diesel oil. The soln. is rather to design the pumps so they can handle pure DME.

ST dimethyl ether viscosity volatile fuel viscometer

IT Rape oil

RL: MOA (Modifier or additive use); USES (Uses)

(Me esters; assessment of viscosity of di-Me ether using volatile fuel viscometer)

IT **Candles**

Diesel engines

Diesel fuel substitutes

Injectors

Viscometers

Wear

(assessment of viscosity of di-Me ether using volatile fuel viscometer)

IT Castor oil

Lard

Palm oil

RL: MOA (Modifier or additive use); USES (Uses)

(assessment of viscosity of di-Me ether using volatile fuel viscometer)

IT Fuel additives

(lubricity; assessment of viscosity of di-Me ether using volatile fuel viscometer)

IT 291291-67-3, Lubrizol LZ 539N

RL: MOA (Modifier or additive use); USES (Uses)

(assessment of viscosity of di-Me ether using volatile fuel viscometer)

IT 115-10-6, Dimethyl ether

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(assessment of viscosity of di-Me ether using volatile fuel viscometer)

RE.CNT 19

RE

- (1) Anon; ASTM Standard D446-74
- (2) Anon; DEA Mineraloel AG Handbook DME 99.99
- (3) Anon; ISO Standard 1997, 12156
- (4) Anon; Standard ISO 1994, 3105
- (5) Briant, J; Rheological Properties of Lubricants 1989
- (6) Christensen, R; SAE Paper 1997, 971665
- (7) Einstein, A; Dover Publications 1956
- (8) Fleisch, T; SAE Paper 1995, 950061
- (9) Goering, C; Transactions of the ASAE 1982, P1472 HCAPLUS
- (10) Hansen, J; SAE Paper 1995, 950063
- (11) Japar, S; International Journal of Chemical Kinetics 1990, V22, P1257 HCAPLUS
- (12) Kajitani, S; SAE Paper 1997, 972973
- (13) Lacey, P; SAE Paper 2000, 2000-01-1804
- (14) Lacey, P; SAE Paper 2000, 2000-01-1917
- (15) Nielsen, K; Fall Technical Conference 1999, V33-1(ASME Paper 99-ICE-217 ICE), P145
- (16) Reid, R; The Properties of Gases and Liquids. Fourth Edition 1987
- (17) Sivebaek, I; Proceeding of the 9th Nordic Symposium on Tribology - NORDTRIB 2000 - At Porvoo 2000
- (18) Sivebaek, I; SAE Paper 2000, 2000-01-2970
- (19) Sorenson, S; SAE Paper 1995, 950064

L9 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2001 ACS

Full-text

AN 2000:316631 HCAPLUS

DN 132:323795

TI Non-paraffin **candle** composition

IN Calzada, Jose Francisco; Upadhyaya, Janardan

PA Can.

SO U.S., 4 pp.

CODEN: USXXAM
 DT Patent
 LA English
 IC ICM C10L005-00
 ICS F23D003-16
 NCL C44275000
 CC 51-12 (Fossil Fuels, Derivatives, and Related Products)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6063144	A	20000516	US 1999-255951	19990223
AB	A substantially non-paraffin combustible candle compn. consists essentially of at least 30 parts by wt. of stearic acid, at least 5 parts by wt. of vegetable-derived wax having a m.p. of at least 50°, 0-50 parts by wt. of at least one vegetable oil, 0 to 10 parts by wt. of at least one fragrance and 0 to 1 part by wt. of at least one oxidn. inhibitor.				
ST	nonparaffin wax candle vegetable oil				
IT	Waxes				
	RL: TEM (Technical or engineered material use); USES (Uses) (arrayan; non-paraffin candle compn.)				
IT	Castor oil				
	RL: TEM (Technical or engineered material use); USES (Uses) (hydrogenated; non-paraffin candle compn.)				
IT	Antioxidants				
	Candles (non-paraffin candle compn.)				
IT	Candelilla wax				
	Carnauba wax				
	Coconut oil				
	Corn oil				
	Cottonseed oil				
	Palm oil				
	Soybean oil				
	Sunflower oil				
	RL: TEM (Technical or engineered material use); USES (Uses) (non-paraffin candle compn.)				
IT	Waxes				
	RL: TEM (Technical or engineered material use); USES (Uses) (sugarcane; non-paraffin candle compn.)				
IT	Waxes				
	RL: TEM (Technical or engineered material use); USES (Uses) (vegetable-derived; non-paraffin candle compn.)				
IT	Sugarcane				
	RL: TEM (Technical or engineered material use); USES (Uses) (wax; non-paraffin candle compn.)				
IT	57-11-4, Stearic acid, uses				
	RL: TEM (Technical or engineered material use); USES (Uses) (non-paraffin candle compn.)				

RE.CNT 6

RE

- (1) Cangardel; US 3871815 1975 HCAPLUS
- (2) Daling; US 3630697 1971 HCAPLUS
- (3) Easterday; US 3843312 1974
- (4) Knowles; US 3613658 1971
- (5) Morrison; US 5879694 1999 HCAPLUS
- (6) Requejo; US 5919423 1999 HCAPLUS

L9 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2001 ACS

~~Full-text~~

AN 1998:31382 HCAPLUS

DN 128:66323

TI Process for producing a paraffin-based object, especially a perfumed **candle**

IN Matzat, Norbert; Matthaei, Michael; Starke, Claus

PA Schuemann Sasol G.m.b.H. und Co. K.-G., Germany; Matzat, Norbert; Matthaei, Michael; Starke, Claus

SO PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM C11C005-00

IDS A61K007-46

CC 62-5 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9748784	A1	19971224	WO 1997-EP2670	19970524
	W:		AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG		
	DE 19707909	A1	19980108	DE 1997-19707909	19970227
	CA 2258678	AA	19971224	CA 1997-2258678	19970524
	AU 9729604	A1	19980107	AU 1997-29604	19970524
	EP 906381	A1	19990407	EP 1997-923997	19970524
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, SI, FI		
	BR 9709825	A	19990810	BR 1997-9825	19970524
	JP 2001501983	T2	20010213	JP 1998-502169	19970524
	US 6224641	B1	20010501	US 1998-202755	19981216
PRAI	DE 1996-19624454	A	19960619		
	DE 1996-19643719	A	19961023		
	DE 1997-19707909	A	19970227		
	WO 1997-EP2670	W	19970524		

AB In a method for prodn. of a perfumed **candle** or other paraffin-based object with a proportion of a perfume, the perfume is dissolved in a solvent contg. an ester, esp. an org. ester such as a triglyceride, and the soln. is in turn added to or dissolved in paraffin. The perfume forms a solid soln. with the solvent; this soln. may contain a high proportion of perfume and is readily mixed homogeneously with powd. paraffin base. The powd. mixt. is formed into a **candle** or other object by compression. Thus, hardened **palm** oil (penetration 6 mm-1) contg. 30% essential oil was mixed 1:1 with paraffin paste to produce a product with penetration ~46 mm-1 at 30°.

ST paraffin wax perfumed **candle**

IT **Palm** oil

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hardened; process for producing a paraffin-based object, esp. a perfumed **candle**)

IT Waxes

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(micro-; process for producing a paraffin-based object, esp. a perfumed **candle**)

IT **Candles**

Perfumes

(process for producing a paraffin-based object, esp. a perfumed **candle**)

IT Paraffin waxes, biological studies

STN Columbus

Tallow
 RL: BUU Biological use, unclassified; BICL Biological study; USES
 (Uses)
 process for producing a paraffin-based object, esp. a perfumed
candle)

IT Esters, biological studies
 Glycerides, biological studies
 RL: BUU Biological use, unclassified; BICL Biological study; USES
 (Uses)
 solvents; process for producing a paraffin-based object, esp. a
 perfumed **candle**)

LS ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2001 ACS
Full-text
 AN 1997:720577 HCAPLUS
 DN 127:308624
 TI Wax-based **candles** comprising paraffin wax and an ester and/or
 ester-montan wax mixture, and manufacture of the wax, especially for
candles
 IN Matzat, Norbert; Meyer, Gernot; Laudi, Rolf; Matthaei, Michael;
 Hildebrand, Guenter; Starke, Claus
 PA Schuemann Sasol GmbH Co. KG, Germany
 SO Neth. Appl., 11 pp.
 CODEN: NAXXAN
 DT Patent
 LA Dutch
 IC ICM C11C005-00
 ICS C08L091-06
 CC 45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL 1005033	A1	19970722	NL 1997-1005033	19970117
	NL 1005033	C2	19980715		
	EP 838517	A1	19980429	EP 1997-112397	19970718
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	DE 1996-19601998		19960120		
	DE 1996-19644737		19961028		
AB	In the candles , the paraffin wax component is of tech. quality and has f.p. $\leq 55^\circ$ and the ester component has f.p. $\geq 35^\circ$. This compn. causes candles with a relative large cross-sectional area to melt evenly when lit. A mixt. of paraffin having f.p. 36° with hardened palm oil (penetration 6/mm at 30°) in ratio 1:1 gave penetration 46/mm at 30° .				
ST	paraffin wax hardened palm oil candle ; tallow paraffin wax candle ; ester montan wax paraffin candle				
IT	Isoalkanes RL: TEM (Technical or engineered material use); USES (Uses) (C16-45, admixts. with alkanes and esters and montan wax; for f.p. control for even melting at large-diam. candles)				
IT	Paraffin waxes, uses RL: TEM (Technical or engineered material use); USES (Uses) (admixts. with esters and montan wax; for f.p. control for even melting at large-diam. candles)				
IT	Alkanes, uses RL: TEM (Technical or engineered material use); USES (Uses) (admixts. with isoalkanes and esters and montan wax; for f.p. control for even melting at large-diam. candles)				
IT	Esters, uses Glycerides, uses Montan wax				

Palm kernel oil
 Palm oil
 Rape oil
 Tallow
 RL: TEM (Technical or engineered material use); USES (Uses)
 admixts. with paraffin wax; for f.p. control for even melting at
 large-diam. **candles**
 IT 57-11-4, Octadecanoic acid, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (**palm**, admixts. with paraffin wax; for f.p. control for even
 melting at large-diam. **candles**)

L9 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2001 ACS
Full-text
 AN 1997:720575 HCAPLUS
 DN 127:308623
 TI Method and waxes for manufacturing **candles**
 IN Matzat, Norbert; Meyer, Gernot; Laudi, Rolf; Matthaei, Michael;
 Hildebrand, Guenter; Starke, Claus
 PA Schuemann Sasol GmbH Co. KG, Germany
 SO Neth. Appl., 10 pp.
 CODEN: NAXXAN
 DT Patent
 LA Dutch
 IC ICM C11C005-00
 ICS C08L091-06
 CC 45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL 1005021	A1	19970718	NL 1997-1005021	19970116
	NL 1005021	C2	19980720		
PRAI	DE 1996-19601521		19960117		

AB In this method, in which the waxes comprise a no. of cryst. components,
 ≥1 of which has a fine-cryst. structure and ≥1 of which has
 a coarse-cryst. structure, the components are first mixed in liq. form,
 cooled at high temp. gradient such that essentially no segregation of the
 components occurs, after which the solidified material is processed to
 obtain the **candles**. A mixt. of 65% paraffin (m.p. ~57, softening
 point ~30°) and balance stearin (m.p. ~54°) was
 melted at 80°, solidified on a roller cooler, and processed to
candles.
 ST cryst wax mixing melting cooling **candle**; paraffin stearin wax **candle**;
 hardened **palm oil paraffin candle**
 IT Fatty alcohols
 Microcrystalline waxes
 Paraffin waxes, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 admixts. with coarse-cryst. waxes; segregation prevention in
candle manuf. by rapid cooling of)
 IT Fats and Glyceridic oils, uses
 Fish oils
 Tallow
 RL: TEM (Technical or engineered material use); USES (Uses)
 admixts. with microcryst. waxes; segregation prevention in
candle manuf. by rapid cooling of)
 IT Waxes
 RL: TEM (Technical or engineered material use); USES (Uses)
 (coarse-cryst., admixts. with microcryst. waxes; segregation prevention
 in **candle** manuf. by rapid cooling of)
 IT **Palm oil**
 RL: TEM (Technical or engineered material use); USES (Uses)

- (hardened, admixts. with microcryst. waxes; segregation prevention in candle manuf. by rapid cooling of)
- IT **Candles**
segregation prevention in candle manuf. by rapid cooling of molten mixts. of fine-cryst. and coarse-cryst. wax mixts. for
- IT 11099-07-3, Stearin
RL: TEM (Technical or engineered material use); USES (Uses.
(admixts. with microcryst. waxes; segregation prevention in candle manuf. by rapid cooling of)
- L9 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2001 ACS
Full-text
- AN 1996:548846 HCAPLUS
DN 125:193957
TI Effect of temperature, light and gamma irradiation on quality of some common edible oils
AU Ahmad, Taufiq; Sattar, Abdus; Atta, Shaheen
CS Nucl. Inst. Food Agric., Peshawar, Pak.
SO Sci. Int. (Lahore) (1995), 7(4), 597-598
CODEN: SINTE8; ISSN: 1013-5316
DT Journal
LA English
CC 17-9 (Food and Feed Chemistry)
AB Effect of temp., light and gamma irrads. was tested on some common edible oils e.g. soybean, sunflower, corn and **palm** products (**palm** olein and **palm** stearin). One set of samples was exposed to continuous fluorescent light (100 ft-candles) at ambient temps. (30-35°C) while the other was kept in the refrigerator. Detn. of peroxide and cholesterol values at successive intervals for a period of 5 mo revealed that there was a significant increase in peroxide values of the samples exposed to fluorescent light at room temp. than those in the refrigerator. **Palm** olein showed the greatest stability with mean POV 73.44 meq/kg followed by corn, sunflower and soybean oils with mean POV values of 105.37, 115.2 and 128.6 meq/kg resp. after 5 mo storage. A slight increase was noted in cholesterol % for both the storage conditions, but smallest increase was noted in **palm** olein samples. Treatment of **palm** products to irrads. (2.5-10.0 kGy) showed a regular increase in POV for **palm** olein (9.4 meq/kg to 13.0 meq/kg) and **palm** stearin (17.48 to 22.7 meq/kg). However, a clear decreasing trend was obsd. in the iodine values of these **palm** products on exposure to gamma irrads.
- ST temp gamma radiation light vegetable oil
IT Gamma ray
Temperature effects, biological
(effect of temp., light and gamma radiation on quality of some common edible oils)
- IT Corn oil
Soybean oil
Sunflower oil
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(effect of temp., light and gamma radiation on quality of some common edible oils)
- IT Peroxides, formation (nonpreparative)
RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
(effect of temp., light and gamma radiation on quality of some common edible oils)
- IT **Palm** oil
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(oleins, effect of temp., light and gamma radiation on quality of some common edible oils)
- IT Fats and Glyceridic oils
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(vegetable, effect of temp., light and gamma radiation on quality of

some common edible oils)
 IT 57-88-5, Cholesterol, biological studies
 RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
 (effect of temp., light and gamma radiation on quality of some common
 edible oils)

L9 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2001 ACS

Full-text

AN 1994:137639 HCAPLUS
 DN 120:137639
 TI Method of making a **candle** and composition thereof
 IN Lin, Kuo Lung
 PA Chen, Wen Chi, Taiwan
 SO Brit. UK Pat. Appl., 16 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 IC ICM C11C005-00
 ICS C08L091-06
 CC 45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2262537	A1	19930623	GB 1991-27167	19911220
	GB 2262537	B2	19951004		

AB The method providing a **candle** which releases reduced smoke, odor, and toxic particles on burning includes heat melting a butter oil and a solidified oil, mixing the butter oil and the solidified oil, and cooling and solidifying the mixt. to provide the wax of the **candle**, the butter oil having m.p. 35-37° and palmitic content ≤0.1% and the solidified oil having acid value <0.5, I value <2.0, sapon. value 195-198, m p. 60±1°, and impurity content <0.2%. A **candle** was prepd. from a butter oil contg. **palm** oil 50-58, coconut oil 30-35, soybean oil 5-8, cotton seed oil 5-8, flavor 2%, and other additives and a solidified oil contg. 80-90% **palm** oil and 10-20% soybean oil.

ST **candle** manuf butter oil compn; solidified oil butter **candle** manuf
 IT Coconut oil
 Cottonseed oil
Palm oil
 Soybean oil
 RL: USES (Uses)
 (butter oil contg., for manuf. of **candles**)

IT **Candles**
 (manuf. of, from butter oil and solidified oil, with reduced smoke, odor, and toxic particles on burning)

IT **Palm** oil
 RL: USES (Uses)
 (hydrogenated, butter oil contg., for manuf. of **candles**)

L9 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2001 ACS

Full-text

AN 1989 556417 HCAPLUS
 DN 111:556417
 TI Paraffin wax substitute
 IN Phadoemchit, Tajchai; Boonvichitr, Saovaluck
 PA Thailand
 SO U.S.. 3 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM C08L091-00
 ICS C11C003-12

NOL 106244000

CC 45-3 Industrial Organic Chemicals, Leather, Fats, and Waxes

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4842648	A	19890627	US 1987-112352	19871022
AB	The title substitute, useful in the manuf. of shoe waxes, candles , waxed paper, etc., which is completely compatible with paraffin and hydrocarbon waxes, comprises a mixt. of 1-5% glyceryl monostearate (an emulsifying agent which reduces the amt. of cracking during molding) and refined, bleached, and the remainder as deodorized palm stearin. This compn. has m.p. 55-62° and I value 0-5.				
ST	paraffin wax substitute manuf; stearin glyceryl monostearate wax substitute				
IT	Waxes and Waxy substances				
RL:	USES (Uses)				
	(glyceryl monostearate-refined palm stearin mixts. as, compatible with or as substitutes for paraffin waxes)				
IT	Paraffin waxes and Hydrocarbon waxes, uses and miscellaneous				
RL:	USES (Uses)				
	(substitutes for, refined palm stearin-glyceryl monostearate mixts. as, manuf. of)				
IT	11099-07-3, Stearin				
RL:	USES (Uses)				
	(mixts. with glyceryl monostearate, as substitutes for paraffin waxes)				
IT	31566-31-1, Glyceryl monostearate				
RL:	USES (Uses)				
	(mixts. with refined and bleached and deodorized palm stearin, as substitutes for paraffin waxes)				

L9 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2001 ACS

Full-text

AN 1988:633169 HCAPLUS
 DN 109:233169
 TI Manufacture of wax from **palm** oil
 IN Tachai, Fuadonchitsuto
 PA Bangkok Realty Co. Ltd., Thailand
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C11B011-00
 CC 45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 Section cross-reference(s): 43

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63168494	A2	19880712	JP 1986-316033	19861227
AB	Wax suitable for use in prepg. wax paper is manufd. by hydrogenating palm stearin and optionally beef tallow to an iodine no. (I) of 1-5. Hydrogenation of palm stearin (I 37-42, m.p. 50-52°) to I 1-5 provided a product useful for prepg. candles , matches, and wax paper.				
ST	palm stearin hydrogenation wax; candle hydrogenated palm stearin; match hydrogenated palm stearin; paper wax hydrogenated palm stearin				
IT	Tallow				
RL:	USES (Uses)				
	(hydrogenation of palm oil and, for waxes)				
IT	Palm oil				
RL:	RCT (Reactant)				
	(hydrogenation of, for waxes)				
IT	Hydrogenation				
	(of palm oil, for waxes)				

IT Waxes and Waxy substances
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (prepn. of, by hydrogenation of **palm oil**)
 IT 1333-74-0
 RL: USES (Uses)
 (hydrogenation, of **palm oil**, for waxes)

L9 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2001 ACS

Full-text

AN 1988:495094 HCAPLUS
 DN 109:95094
 TI Hydrogenation of **palm** stearin
 IN Phadornchit, Tajchai
 PA Bangkok Realty Co. Ltd., Thailand
 SC Brit. UK Pat. Appl., 8 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 IC ICM C11C003-12
 CC 45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2197337	A1	19880518	GB 1986-27486	19861117
AB	Wax useful in making candles or match heads is obtained by hydrogenating palm stearin or its mixt. with cow tallow to iodine value 1-5. Thus, melted palm stearin was hydrogenated at 170-180°, 20-140 psi H using a Ni catalyst to give a product with iodine value 4.				
ST	palm stearin hydrogenation; cow tallow hydrogenation				
IT	Palm oil				
	RL: RCT (Reactant) (hydrogenation of, for wax used in candles or match heads)				
IT	Hydrogenation (of palm stearin, for wax used in candles or match heads)				
IT	Fatty acids, reactions RL: RCT (Reactant) (palm -oil, hydrogenation of, for wax used in candles or match heads)				
IT	Fatty acids, reactions RL: RCT (Reactant) (tallow, hydrogenation of, for wax used in candles or match heads)				
IT	7440-02-0, Nickel, uses and miscellaneous RL: CAT (Catalyst use); USES (Uses) (catalysts, for hydrogenation of palm stearin and tallow)				
IT	1333-74-0 RL: USES (Uses) (hydrogenation, of palm stearin, for wax used in candles or match heads)				

L9 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2001 ACS

Full-text

AN 1976:404318 HCAPLUS
 DN 85:4318
 TI Media, shade and fertilizer influence production of the areca **palm**,
 Chrysalidocarpus lutescens Wendl
 AU Poole, Richard T.; Conover, Charles A.
 CS Agric. Res. Cent., Inst. Food Agric. Sci., Apopka, Fla., USA
 SO Proc. Fla. State Hortic. Soc. (1976), 88, 603-5
 CODEN: PFSHA7
 DT Journal

STN Columbus

LA English
CC 19-4 (Fertilizers, Soils, and Plant Nutrition.)
AB The best title plants were produced under 40% shade (6000-7000
ft-candles) while growing in a medium of 3 parts Florida peat and 1 part
mason sand and fertilized 3 times with 0.5 oz 18-6-12 Osmocote 8 in. pot
at 4-5-month intervals.
ST areca **palm** fertilizer
IT Chrysalidocarpus lutescens
(fertilizer expts. with, with nitrogen and phosphorus and potassium)
IT Fertilizer experiment
(with nitrogen and phosphorus and potassium, with areca **palm**
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